



Defense Standardization Program Conference Joint Standards Board for Power Source Systems

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Joint Standardization Board for Power Source Systems (JSBPS²)



The purpose of the JSB for Power Source Systems is to:

- Provide senior level (USD AT&L) visibility for standardization and interoperability initiatives.
- Establish DoD Standards (IAW DOD 4120.24-M, Defense Standardization Program, Policies and Procedures) or Non-Government Standards as applicable.
- Improve interoperability of joint and coalition forces.
- Recommend joint doctrine, tactics, techniques and procedures.
- Establish standardization of parts/components that have lowered cost, reduced inventories, shortened logistics chains and improved readiness.
- Develop joint solutions to issues that impact the Power Source Systems domain.
- Propose funding requirements for specific efforts/projects related to standardization and interoperability goals and objectives.
- Provide the interface for commercial/military integration.

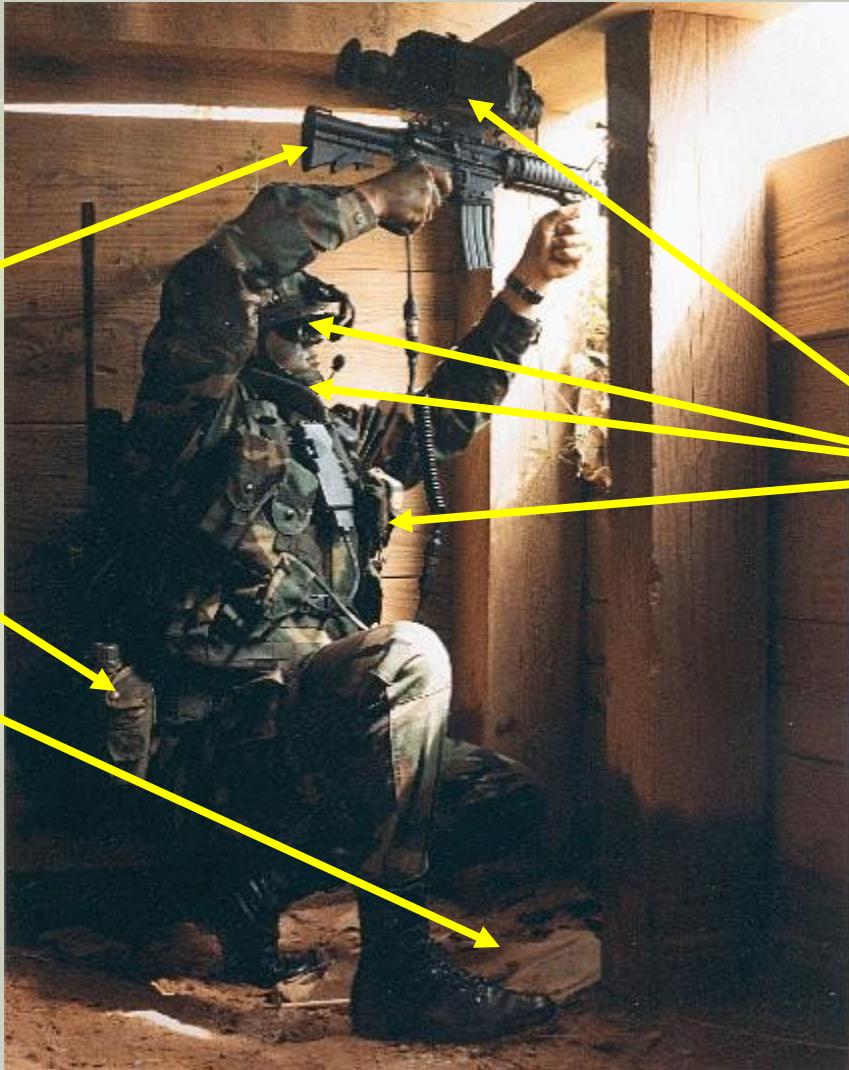


Examples of Successful Standardization

Ammo

Water

Food



Needed Standardization

Soldier Power Systems



What Causes Non-standardization?



- 💡 Ignorance
 - 💡 By the “gatekeeper” of policy
 - 💡 By the developer of policy
 - 💡 By the designer of what is available
- 💡 Military requirements
 - 💡 Capacity
 - 💡 Temperature
 - 💡 Environmental
- 💡 Allocated weight/volume and interface



The Result of Non-standardization



- ☞ DoD manages over 5,000 power related Items
- ☞ Increased logistics costs (from depot to rucksack)
- ☞ Multiple interfaces complicates use of alternative power sources
- ☞ Military unique and boutique batteries are expensive
- ☞ Military unique production base



Types of Standardization

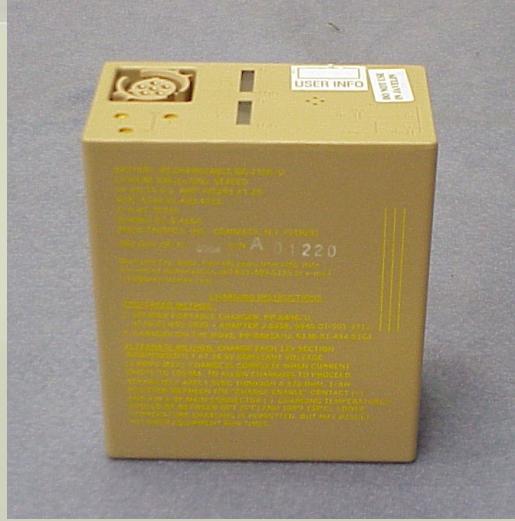
- 蠟燭 **Desired Standardization** - Use of a “preferred” configuration
- 蠟燭 **Good Standardization** - Use of a battery configuration that is not “preferred” but already in the DoD inventory
- 蠟燭 **Acceptable Standardization** - Use of a unique configuration – but one based on commercial technologies
- 蠟燭 **Unacceptable Standardization** - Use of a unique configuration and one utilizing a military unique technology



Desired Standardization



BA-5590/5390
Non-rechargeable battery
(uses standard military cell)



BB-2590
Rechargeable battery
(uses standard commercial cell)

**This configuration supports
122 known end items**



Good Standardization



**These batteries support
over 270 end items**



Lithium Ion



Alkaline Cells



**Lead Acid
Vehicle Batteries**

Commercial Chargers

Use of repackaged commercial technologies is “acceptable” standardization





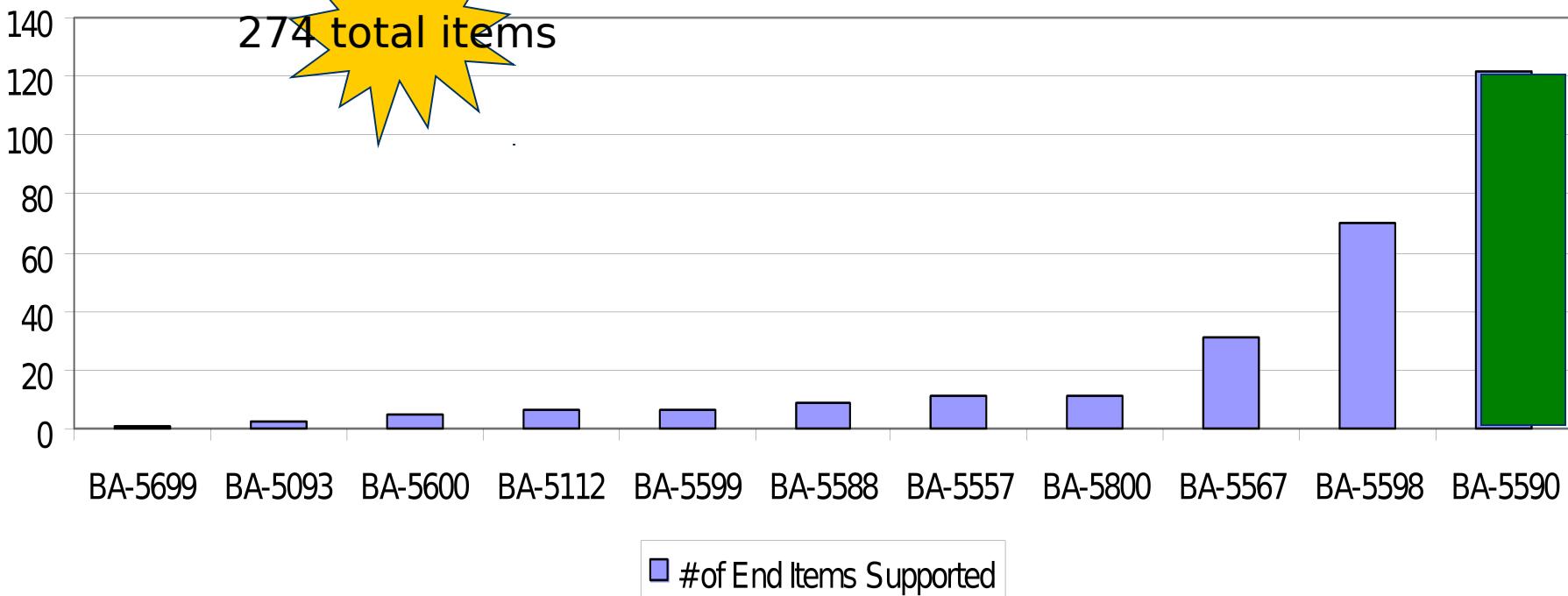
Example of Unacceptable Standardization



A Partial Success Story

Army Family of Military Unique Batteries

274 total items



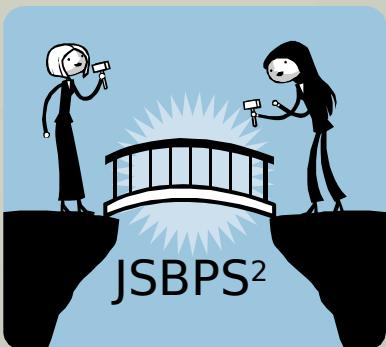


Standardization is "Bi polar"

THE PAST
Deal with the
lack of
standardization
in legacy
systems



Correcting Past
Problems

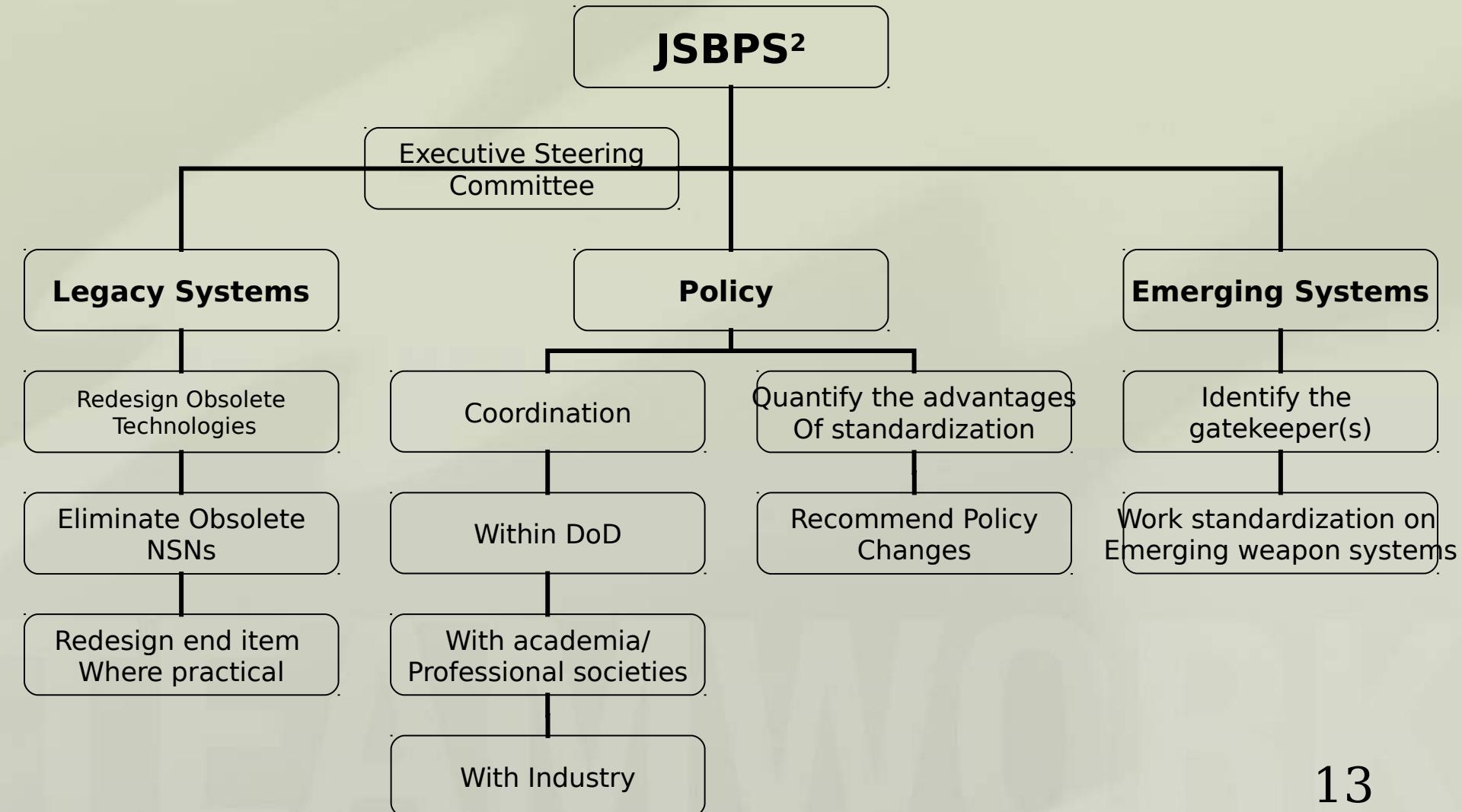


THE FUTURE
-Standardize on
-Technologies
-Configurations
-Interfaces

Preventing them
from occurring in
the future



Three Prong Approach





Power Source

"Coherent

View"



- 💡 Web based system
- 💡 Contains over 15,000 battery and battery related items (NSN and commercial part numbers)
- 💡 Searchable by
 - 💡 Battery physical attributes
 - 💡 Manufacturers
 - 💡 Logistics Data
- 💡 Beta Version to include
 - 💡 Other power sources (fuel cells, hybrids, supercapacitors)
 - 💡 Cross referencing of items/alternative power sources
 - 💡 Safety and service approvals
 - 💡 "Preferred" configurations
 - 💡 Search criteria defined for designers, users and logisticians



"Coherent View" Uses

- 🕯 Helps identify legacy batteries for potential elimination
- 🕯 Identify potential solutions for new weapon systems
- 🕯 Identify preferred power source types
- 🕯 Assist in trade off analysis



Upcoming Events

- Executive Committee Meeting
- Review of “Coherent View”
- Industry Forum
- Soldier System Standardization Meeting



What I Need From You!

- 蜡烛图标 Support for JSB Power Sources efforts
- 蜡烛图标 Help identify key resources to assist the effort
- 蜡烛图标 Points of contact are:

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